

AMENDMENTS TO THE CLAIMS

The following is a complete listing of the claims indicating the current status of each claim and including amendments currently entered as highlighted.

1. (Currently Amended) An ultrasound transducer comprising:
 - (a) a piezoelectric film having a first end and a second end;
 - (b) a plurality of electrodes disposed on said piezoelectric film;
 - (c) at least one securing member; and
 - (d) a support structure, which is substantially cylindrical, ~~wherein said~~
support structure including a protrusion formed as an elongated
projecting ridge having a direction of elongation, said support structure
having a central axis, said direction of elongation being substantially
parallel to said central axis, said first end and said second end are being
secured to said protrusion of said support structure by said at least one
securing member.
2. (Original) The ultrasound transducer of claim 1 further comprising
an electrical contact disposed on said support structure.
3. (Canceled)
4. (Canceled)
5. (Currently Amended) The ultrasound transducer of claim ~~3-1~~1 further
comprising an electrical contact disposed on said protrusion.

6. (Original) The ultrasound transducer of claim 1 wherein said at least one securing member is a clip.

7. (Original) The ultrasound transducer of claim 1 further comprising an electrical contact wherein said electrical contact is disposed on said at least one securing member.

8. (Original) The ultrasound transducer of claim 1 wherein said piezoelectric film has a first surface and a second surface and wherein said electrodes include:

- (a) a first electrode disposed on said first surface;
- (b) a second electrode disposed on said second surface wherein at least a part of said second electrode is in an opposing relationship with at least a part of said first electrode;
- (c) a first electrical connecting strip disposed on said first surface wherein said first electrical connecting strip is connected to said first electrode; and
- (d) a second electrical connecting strip disposed on said second surface in a substantially non-opposing relationship with said first electrical connecting strip wherein said second electrical connecting strip is connected to said second electrode.

9. (Original) The ultrasound transducer of claim 1 wherein said piezoelectric film has a first surface and a second surface and wherein said electrodes include:

- (a) a first electrode and a second electrode disposed on said first surface, wherein said first electrode is disposed in a pattern that is non-contiguous with said second electrode;
- (b) a third electrode and a fourth electrode disposed on said second surface, wherein:
 - (i) at least a part of said third electrode is in an opposing relationship with at least a part of said first electrode;
 - (ii) at least a part of said fourth electrode is in an opposing relationship with at least a part of said second electrode; and
 - (iii) said third electrode is disposed in a pattern that is non-contiguous with said fourth electrode; and
- (c) an electrical joining strip extending from said first electrode to said fourth electrode, wherein said electrical joining strip includes a first portion of said electrical joining strip on said first surface and a second portion of said electrical joining strip on said second surface, and wherein said first portion and said second portion are electrically connected.

10. (Original) The ultrasound transducer of claim 9 wherein said first portion and said second portion are electrically connected via a hole in said piezoelectric film.

11. (Original) The ultrasound transducer of claim 1 further comprising a helical metal spring, wherein said helical metal spring is disposed around said piezoelectric film.

12. (Currently Amended) An ultrasound receiver comprising:
- (a) a piezoelectric film having a first surface and a second surface;
 - (b) a first electrode disposed on said first surface;
 - (c) a second electrode disposed on said second surface wherein at least a part of said second electrode is in an opposing relationship with at least a part of said first electrode;
 - (d) a first electrical connecting strip disposed on said first surface wherein said first electrical connecting strip is connected to said first electrode;
and
 - (e) a second electrical connecting strip disposed on said second surface in a substantially non-opposing relationship with said first electrical connecting strip wherein said second electrical connecting strip is connected to said second electrode;
 - (f) a substantially cylindrical element, which is hollow, formed primarily from said piezoelectric film, said substantially cylindrical element having a central axis and a height measured parallel to said central axis; and
 - (g) a support structure for supporting said substantially cylindrical element, said support structure being configured to support said substantially cylindrical element in such a manner as to allow propagation of vibration waves circumferentially around a major part of said substantially cylindrical element; wherein said first electrode is formed as a strip extending in an extensional direction substantially parallel to said central axis along at least a part of said height, said strip subtending at said central axis an angle of not more than 90°.

13. (Original) The ultrasound receiver according to claim 12 wherein:
- (a) said first electrical connecting strip is in a substantially non-opposing relationship with said second electrode; and
 - (b) said second electrical connecting strip is in a substantially non-opposing relationship with said first electrode.
14. (Canceled)
15. (Currently Amended) The ultrasound receiver according to claim ~~14~~ 12 wherein:
- (a) said substantially cylindrical element has an inner surface wherein said first surface forms said inner surface; and
 - (b) said second electrode is grounded.
16. (Currently Amended) A multi-electrode ultrasound receiver comprising:
- (a) a piezoelectric film having a first surface and a second surface;
 - (b) a first electrode and a second electrode disposed on said first surface, wherein said first electrode is disposed in a pattern that is non-contiguous with said second electrode;
 - (c) a third electrode and a fourth electrode disposed on said second surface, wherein:
 - (i) at least a part of said third electrode is in an opposing relationship with at least a part of said first electrode;
 - (ii) at least a part of said fourth electrode is in an opposing relationship with at least a part of said second electrode; and

- (iii) said third electrode is disposed in a pattern that is non-contiguous with said fourth electrode; and
- (d) an electrical joining strip extending from said first electrode to said fourth electrode wherein said electrical joining strip includes a first portion of said electrical joining strip on said first surface and a second portion of said electrical joining strip on said second surface and said first portion and said second portion being electrically connected;
- (e) a substantially cylindrical element, which is hollow, formed primarily from said piezoelectric film, said substantially cylindrical element having a central axis and a height measured parallel to said central axis, said first electrode and said second electrode in combination subtending at said central axis an angle of not more than 90°; and
- (f) a support structure for supporting said substantially cylindrical element, said support structure being configured to support said substantially cylindrical element in such a manner as to allow propagation of vibration waves circumferentially around a major part of said substantially cylindrical element.

17. (Canceled)

18. (Currently Amended) The multi-electrode ultrasound receiver according to claim ~~17~~16 wherein:

- (a) said substantially cylindrical element has an inner surface wherein said first surface forms said inner surface; and
- (b) said third electrode is grounded.

19. (Original) The multi-electrode ultrasound receiver according to claim 16 wherein said first portion and said second portion are electrically connected via a hole in said piezoelectric film.

20. (Original) The multi-electrode ultrasound receiver according to claim 16 further comprising:

- (a) a first electrical connecting strip disposed on said first surface, wherein said first electrical connecting strip is connected to said second electrode; and
- (b) a second electrical connecting strip disposed on said second surface, wherein said second electrical connecting strip is connected to said third electrode and said second electrical connecting strip is in a substantially non-opposing relationship with said first electrical connecting strip.

21-27. (Canceled)